HW#9: Midpoint

Geometry

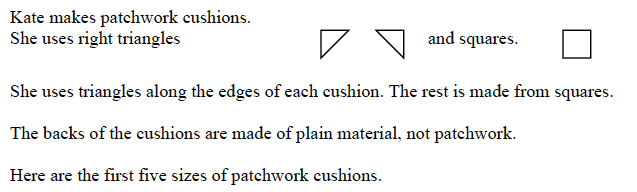
Due Date: Tuesday September 22nd

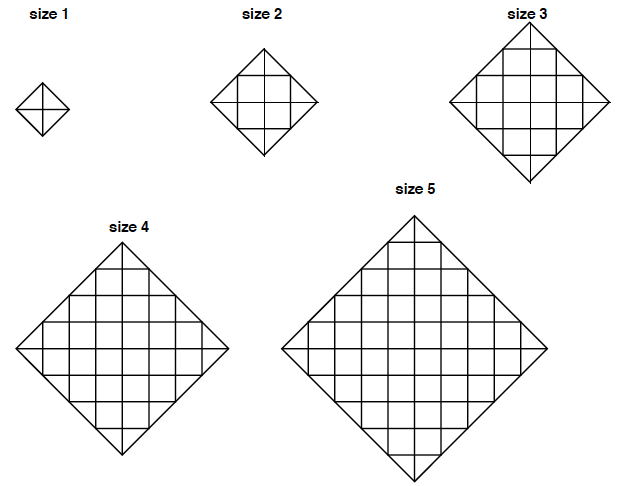
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

Complete all problems. If you do not know how to solve a problem you MUST have questions written or an explanation of WHY you cannot complete the problem.

|  |  |  |
| --- | --- | --- |
| 1. Find *MF.* | 2. Find *MH*. | |
| 3. Line *AB* is bisected at point *C*. Find *AC* if *AB* = 56 feet. | 4. Point K (1,4) and Point J (5,4) are bisected by Point T. What are the coordinates of Point T? | |
| 5. Your house is at (1,1) and the mall is at (13, 15). The movie theater is halfway between your house and the mall, on the same road.   1. Draw and label a sketch to represent this situation. 2. What are the coordinates of the movie theater? | | |
| 6. Which point represents the midpoint of segment AB?     1. Point D B. Point D and Point C 2. Point C D. Point E | | 7. Find the midpoint of a segment on a number line with coordinates -12 and 32.   1. -44 2. 10 3. 20 4. 22 |

8. Patchwork Cushions





1. Create a table for the triangles added.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x (Size) |  |  |  |  |  |
| t(x) (Number of triangles tiles) |  |  |  |  |  |

1. Create a table for the squares added.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x (Size) |  |  |  |  |  |
| s(x) (Number of square tiles) |  |  |  |  |  |

c. Which function is linear? Justify your response. (Calculations and written!)